

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 09/490,064A  
Source: IFW/6  
Date Processed by STIC: 5/2/06

***ENTERED***



IFW16

**RAW SEQUENCE LISTING**  
**PATENT APPLICATION: US/09/490,064A**

**DATE: 05/02/2006**  
**TIME: 11:47:40**

**Input Set : A:\376298US.APP**  
**Output Set: N:\CRF4\05022006\I490064A.raw**

3 <110> APPLICANT: KNAPPIK, ACHIM  
 4 PACK, PETER  
 5 ILAG, VIC  
 6 GE, LIMING  
 7 MORONEY, SIMON  
 8 PLUECKTHUN, ANDREAS  
 10 <120> TITLE OF INVENTION: PROTEIN/(POLY) PEPTIDE LIBRARIES  
 12 <130> FILE REFERENCE: 37629-0008US  
 14 <140> CURRENT APPLICATION NUMBER: 09/490,064A  
 15 <141> CURRENT FILING DATE: 2000-01-24  
 17 <150> PRIOR APPLICATION NUMBER: 09/025,709  
 18 <151> PRIOR FILING DATE: 1998-02-18  
 20 <160> NUMBER OF SEQ ID NOS: 372  
 22 <170> SOFTWARE: PatentIn Ver. 3.3  
 24 <210> SEQ ID NO: 1  
 25 <211> LENGTH: 20  
 26 <212> TYPE: PRT  
 27 <213> ORGANISM: Artificial Sequence  
 29 <220> FEATURE:  
 30 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 31 peptide linker  
 33 <400> SEQUENCE: 1  
 34 Ala Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly  
 35 1 5 10 15  
 37 Gly Gly Gly Ser  
 38 20  
 41 <210> SEQ ID NO: 2  
 42 <211> LENGTH: 82  
 43 <212> TYPE: DNA  
 44 <213> ORGANISM: Artificial Sequence  
 46 <220> FEATURE:  
 47 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 48 oligonucleotide  
 50 <400> SEQUENCE: 2  
 51 tcagcgggtg gcggttctgg cggcggtggg agcggtggcg gtggttctgg cggtggtgg 60  
 52 tccgatatacg gtccacgtac gg 82  
 55 <210> SEQ ID NO: 3  
 56 <211> LENGTH: 83  
 57 <212> TYPE: DNA  
 58 <213> ORGANISM: Artificial Sequence  
 60 <220> FEATURE:  
 61 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 62 oligonucleotide

P, b

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64 <400> SEQUENCE: 3  
65 aattccgtac gtggaccgat atcggAACCA ccaccGCCAG aaccACCGCC accGCTCCC 60  
66 cccGGCCAG aaccGCCACC CGC 83  
69 <210> SEQ ID NO: 4  
70 <211> LENGTH: 69  
71 <212> TYPE: DNA  
72 <213> ORGANISM: Artificial Sequence  
74 <220> FEATURE:  
75 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
76 oligonucleotide template  
78 <220> FEATURE:  
79 <221> NAME/KEY: modified\_base  
80 <222> LOCATION: (28)..(30)  
81 <223> OTHER INFORMATION: region represents a variable trinucleotide combination  
82 capable of coding any natural occurring amino acid  
83 other than Cys  
85 <220> FEATURE:  
86 <221> NAME/KEY: modified\_base  
87 <222> LOCATION: (31)..(33)  
88 <223> OTHER INFORMATION: region represents a variable trinucleotide combination  
89 capable of coding any natural occurring amino acid  
90 other than Cys  
92 <220> FEATURE:  
93 <221> NAME/KEY: modified\_base  
94 <222> LOCATION: (34)..(36)  
95 <223> OTHER INFORMATION: region represents a variable trinucleotide combination  
96 capable of coding any natural occurring amino acid  
97 other than Cys  
99 <220> FEATURE:  
100 <221> NAME/KEY: modified\_base  
101 <222> LOCATION: (37)..(39)  
102 <223> OTHER INFORMATION: region represents a variable trinucleotide combination  
103 capable of coding any natural occurring amino acid  
104 other than Cys  
106 <220> FEATURE:  
107 <221> NAME/KEY: modified\_base  
108 <222> LOCATION: (40)..(42)  
109 <223> OTHER INFORMATION: region represents a variable trinucleotide combination  
110 capable of coding any natural occurring amino acid  
111 other than Cys  
113 <220> FEATURE:  
114 <221> NAME/KEY: modified\_base  
115 <222> LOCATION: (43)..(45)  
116 <223> OTHER INFORMATION: region represents a variable trinucleotide combination  
117 capable of coding any natural occurring amino acid  
118 other than Cys  
120 <400> SEQUENCE: 4  
W--> 121 gatacggccc tgtaTTATTG CGCGCGTNNN nnnnnnnnnn nnnnnngatta ttggggccaa 60  
122 ggaccCCTG 69

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125 <210> SEQ ID NO: 5  
126 <211> LENGTH: 84  
127 <212> TYPE: DNA  
128 <213> ORGANISM: Artificial Sequence  
130 <220> FEATURE:  
131 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
132 oligonucleotide template  
134 <220> FEATURE:  
135 <221> NAME/KEY: modified\_base  
136 <222> LOCATION: (28)..(30)  
137 <223> OTHER INFORMATION: region represents a variable trinucleotide combination  
138 capable of coding any natural occurring amino acid  
139 other than Cys  
141 <220> FEATURE:  
142 <221> NAME/KEY: modified\_base  
143 <222> LOCATION: (31)..(33)  
144 <223> OTHER INFORMATION: region represents a variable trinucleotide combination  
145 capable of coding any natural occurring amino acid  
146 other than Cys  
148 <220> FEATURE:  
149 <221> NAME/KEY: modified\_base  
150 <222> LOCATION: (34)..(36)  
151 <223> OTHER INFORMATION: region represents a variable trinucleotide combination  
152 capable of coding any natural occurring amino acid  
153 other than Cys  
155 <220> FEATURE:  
156 <221> NAME/KEY: modified\_base  
157 <222> LOCATION: (37)..(39)  
158 <223> OTHER INFORMATION: region represents a variable trinucleotide combination  
159 capable of coding any natural occurring amino acid  
160 other than Cys  
162 <220> FEATURE:  
163 <221> NAME/KEY: modified\_base  
164 <222> LOCATION: (40)..(42)  
165 <223> OTHER INFORMATION: region represents a variable trinucleotide combination  
166 capable of coding any natural occurring amino acid  
167 other than Cys  
169 <220> FEATURE:  
170 <221> NAME/KEY: modified\_base  
171 <222> LOCATION: (43)..(45)  
172 <223> OTHER INFORMATION: region represents a variable trinucleotide combination  
173 capable of coding any natural occurring amino acid  
174 other than Cys  
176 <220> FEATURE:  
177 <221> NAME/KEY: modified\_base  
178 <222> LOCATION: (46)..(48)  
179 <223> OTHER INFORMATION: region represents a variable trinucleotide combination  
180 capable of coding any natural occurring amino acid  
181 other than Cys

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183 <220> FEATURE:
184 <221> NAME/KEY: modified_base
185 <222> LOCATION: (49)..(51)
186 <223> OTHER INFORMATION: region represents a variable trinucleotide combination
187 capable of coding any natural occurring amino acid
188 other than Cys
190 <220> FEATURE:
191 <221> NAME/KEY: modified_base
192 <222> LOCATION: (52)..(54)
193 <223> OTHER INFORMATION: region represents a variable trinucleotide combination
194 capable of coding any natural occurring amino acid
195 other than Cys
197 <220> FEATURE:
198 <221> NAME/KEY: modified_base
199 <222> LOCATION: (55)..(57)
200 <223> OTHER INFORMATION: region represents a variable trinucleotide combination
201 capable of coding any natural occurring amino acid
202 other than Cys
204 <400> SEQUENCE: 5
W--> 205 gatacggccg tgtattattg cgcgctnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnwtk 60
206 gatkwtggg gccaaaggcac cctg 84
209 <210> SEQ ID NO: 6
210 <211> LENGTH: 21
211 <212> TYPE: DNA
212 <213> ORGANISM: Artificial Sequence
214 <220> FEATURE:
215 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
216 primer
218 <400> SEQUENCE: 6
219 gatacggccg tgtattattg c 21
222 <210> SEQ ID NO: 7
223 <211> LENGTH: 17
224 <212> TYPE: DNA
225 <213> ORGANISM: Artificial Sequence
227 <220> FEATURE:
228 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
229 primer
231 <400> SEQUENCE: 7
232 cagggtgcct tggcccc 17
235 <210> SEQ ID NO: 8
236 <211> LENGTH: 17
237 <212> TYPE: DNA
238 <213> ORGANISM: Artificial Sequence
240 <220> FEATURE:
241 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
242 primer
244 <400> SEQUENCE: 8
245 gcagaaggcg aacgtcc 17
248 <210> SEQ ID NO: 9

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## RAW SEQUENCE LISTING

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Input Set : A:\376298US.APP

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249 <211> LENGTH: 80  
 250 <212> TYPE: DNA  
 251 <213> ORGANISM: Artificial Sequence  
 253 <220> FEATURE:  
 254 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 oligonucleotide template  
 257 <220> FEATURE:  
 258 <221> NAME/KEY: modified\_base  
 259 <222> LOCATION: (42)..(44)  
 260 <223> OTHER INFORMATION: region represents a variable trinucleotide combination  
 261 capable of coding any natural occurring amino acid  
 262 other than Cys  
 264 <220> FEATURE:  
 265 <221> NAME/KEY: modified\_base  
 266 <222> LOCATION: (45)..(47)  
 267 <223> OTHER INFORMATION: region represents a variable trinucleotide combination  
 268 capable of coding any natural occurring amino acid  
 269 other than Cys  
 271 <220> FEATURE:  
 272 <221> NAME/KEY: modified\_base  
 273 <222> LOCATION: (48)..(50)  
 274 <223> OTHER INFORMATION: region represents a variable trinucleotide combination  
 275 capable of coding any natural occurring amino acid  
 276 other than Cys  
 278 <220> FEATURE:  
 279 <221> NAME/KEY: modified\_base  
 280 <222> LOCATION: (51)..(53)  
 281 <223> OTHER INFORMATION: region represents a variable trinucleotide combination  
 282 capable of coding any natural occurring amino acid  
 283 other than Cys  
 285 <220> FEATURE:  
 286 <221> NAME/KEY: modified\_base  
 287 <222> LOCATION: (57)..(59)  
 288 <223> OTHER INFORMATION: region represents a variable trinucleotide combination  
 289 capable of coding any natural occurring amino acid  
 290 other than Cys  
 292 <400> SEQUENCE: 9  
 W--> 293 tggaagctga agacgtgggc gtgtattatt gccagcagbv tnnnnnnnnn nnncggnnt 60  
 294 ttggccagg tacgaaagt 80  
 297 <210> SEQ ID NO: 10  
 298 <211> LENGTH: 18  
 299 <212> TYPE: DNA  
 300 <213> ORGANISM: Artificial Sequence  
 302 <220> FEATURE:  
 303 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 primer  
 306 <400> SEQUENCE: 10  
 307 aactttcgta ccctggcc 18  
 310 <210> SEQ ID NO: 11

RAW SEQUENCE LISTING ERROR SUMMARY                    DATE: 05/02/2006  
PATENT APPLICATION: US/09/490,064A                    TIME: 11:47:41

Input Set : A:\376298US.APP  
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:4; N Pos: 28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45  
Seq#:5; N Pos. 28,29.,30,31,32,33,34,35,36,37,38,,39,40,41,42,43,44,45,,46,47  
Seq#:5; N Pos. 48,49,50,51,52,53,54,55,56,,57  
Seq#:9; N Pos. 42,43,44,45,46,47,48,49,50,51,52,53,57,58,59  
Seq#:11; N Pos. 21,22,23,27,28,29,30,31,32,33,34,35,42,43,44,48,49,50  
Seq#:12; N Pós. 21,22,23,27,28,29,30,31,32,39,40,41,45,46,47  
Seq#:365; N Pos. 43,44,45,52,53,54,58,59,60  
Seq#:366; N Pos. 43,44,45,52,53,54,58,59,60  
Seq#:367; N Pos. 43,44,45,52,53,54,58,59,60  
Seq#:368; N Pos. 47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64  
Seq#:369; N Pos. 47,48,49,50,51,52,53,54,55,56,57,58,59,60,61  
Seq#:370; N Pos. 47,48,49,50,51,52,53,54,55,56,57,58  
Seq#:372; N Pos. 21,22,23,27,28,29,30,31,32,33,34,35,42,43,44,48,49,50

**VERIFICATION SUMMARY**

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Input Set : A:\376298US.APP

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L:121 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0  
L:205 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0  
L:293 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0  
L:362 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0  
L:411 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0  
L:8481 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:365 after pos.:0  
L:8516 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:366 after pos.:0  
L:8551 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:367 after pos.:0  
L:8563 M:283 W: Missing Blank Line separator, <220> field identifier  
L:8606 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:368 after pos.:0  
L:8607 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:368 after pos.:60  
L:8655 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:369 after pos.:0  
L:8656 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:369 after pos.:60  
L:8697 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:370 after pos.:0  
L:8766 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:372 after pos.:0